

SPERRY UNIVAC  
UTS 400 Text Editor  
An Intelligent System for the  
Printing and Publishing Industry







## Now, More Than Ever Before . . .

Printing technology keeps improving—from lithography, to direct-printing techniques, to phototypesetting, to computer-based typesetting input systems.

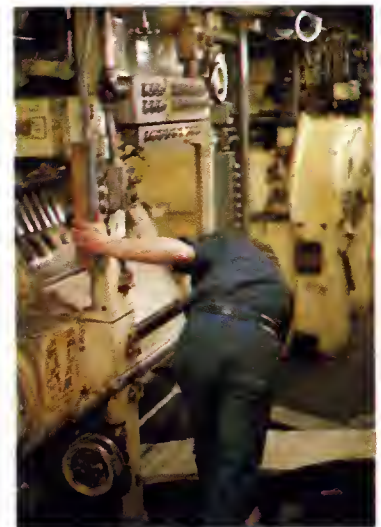
Now computer typesetting and text preparation takes another significant step forward with the introduction of the SPERRY UNIVAC UTS 400 Text Editor visual display terminal. With it, computers can now do more for you than ever before.

The UTS 400 Text Editor is a freestanding system built around its own powerful microprocessor and self-contained memory. You can use it alone, or in conjunction with a central computer.

The UTS 400 Text Editor is designed specifically for the printing and publishing industry. It is easy to learn, easy to use, easy to maintain.

It gives you all the controls you need for editing, correcting and formatting to convert raw text into final, error-free, formatted typesetting input.

All in all, the UTS 400 Text Editor helps you shorten copy preparation time, eliminate typesetting errors, and cut both editing and typesetting production costs.



## Capabilities On-Line, or Off-Line . . .

If you now prepare text for typesetting and volume printing on-line to a central computer, the UTS 400 Text Editor will help you do the job faster and more accurately. It will also relieve your central computer of a considerable processing burden—and lower your computer costs in the process.

Beyond that, the UTS 400 Text Editor has complete capabilities as an independent text-editing system. When using it as an independent system, you can enter text data directly or read it from one of the Text Editor peripheral storage devices—tape cassette or diskette. Then you can work on the text data and either transfer the result to a peripheral device for storage or printing or both.

Text definition, manipulation, management and style control can all be performed easily by the hardware and firmware built into the UTS 400 Text Editor. Thus you free your central computer completely of all text-editing operations, whether you use the UTS 400 Text Editor on-line or independently.

With the Text Editor you can review, correct and alter text by block deletions, insertions and transpositions—with all the tedious work performed by the microprocessor built into the unit. The text to be edited—plus the edited text—is displayed in large, bright characters on a large, easy-to-read screen.

The SPERRY UNIVAC UTS 400 Text Editor is sophisticated, effective, efficient and versatile. Any other editing device on the market today can not match its cost and performance advantages.







## Sophistication in Text Editing . . .



The SPERRY UNIVAC UTS 400 Text Editor gives you sophistication in the best sense of the word: it is a microprocessor-based, keyboard and display terminal specifically designed for printing and publishing.

It uses the very latest design concepts to give you capability, flexibility and the most effective text-editing system available for the cost.

The UTS 400 Text Editor is the modular, growth-oriented, future-oriented answer to your needs for an intelligent text editing system—either as a single station or in a cluster. It gives you the basis for an exceptionally versatile and powerful text editing network.

And the UTS 400 Text Editor offers you the benefit of comprehensive built-in programs—perhaps the highest expression of its sophistication and flexibility.











## Simplicity in Text Editing . . .

Along with sophistication, you get simplicity in using the UTS 400 Text Editor.

First, it is a logical and compatible upgrade from the highly successful UNISCOPE 100 and 200 terminal systems already in use with SPERRY UNIVAC typesetting systems.

In fact, if you're presently using UNISCOPE 100 and 200 terminals, in an automatic typesetting system, you'll find they easily complement your new UTS 400 Text Editor.

The compatibility extends to line protocol, functional and peripheral considerations. So you need not change your present system to take advantage of the UTS 400 Text Editor.

Of course, compatibility with your Sperry Univac central computer is also completely assured.

The simplicity of the UTS 400 Text Editor can also be expressed in terms of operator ease and efficiency. It begins with the comprehensive keyboard and controls—controls that even let operators control peripherals without the need to return to them once they are loaded.

Very little formal training is needed to understand and use the UTS 400 Text Editor: its simplicity makes it both easy to use and conducive to high output.

The display screen, too, is designed for operator efficiency.

And many UTS 400 Text Editor operations are automatic, to eliminate routine, repetition and fatigue—and to increase accuracy.







## The Features and Benefits . . .

The screen display of the UTS 400 Text Editor is large, bright and easy to read. To edit text, you simply call it up from the built-in memory or peripheral devices—and it is displayed on the screen above the keyboard.

On-screen editing is accomplished quite simply by the use of such simple functions as *insert* and *delete*—or by using more sophisticated capabilities such as *move block*, *copy block*, *search*, *replace*, *word wraparound*, *split screen* and *merge*. Using these latter capabilities you can easily make large changes in the text, view the work by scrolling it and make any final changes required.

Once you've defined a block of text by making at most two keystrokes, you can move, copy, delete or replace that block by using a maximum of two additional keystrokes. Word wraparound automatically eliminates the breaking of a word at the end of a line: split words are automatically dropped to the next line even if only one character overruns.

When you need printed copy, a peripheral device can supply it. You can print a full screen content, part of a screen, or a whole text file.

Four display modes are possible on the large, bright screen: full display, split screen, stored formats and management modification.

The character set and keyboard are comprehensive, complete and designed to meet the specific needs of the printing and publishing industry. The keyboard is divided for ease of use into six functional and color-coded groups of keys, as can be seen in Figure 1.

The UTS 400 Text Editor can hold up to 229 lines of text in its display storage—the equivalent of 10 double-spaced pages of typed copy. These lines of text consist of 24 lines available in the basic UTS 400 Text Editor, and 102 lines each of 8K expansion increments. A system information line is reserved on the top of the screen.



## The UTS 400 Text Editor Display Screen . . .

The UTS 400 Text Editor can display on its screen a total of 1920 characters. Of these, 1840 are devoted to active text display and 80 on the top line of the screen are reserved as a system information line.

The entire 96-character alphanumeric set can be displayed, including both upper-case and lower-case alphabets, all numerics and 32 punctuation and graphic symbols.

The full screen capacity of the UTS 400 Text Editor is 24 lines of 80 characters each. Since the top line is reserved for system messages, 23 lines of 80 characters each are under your control.

Four screen presentations may be used. The *full screen* (23 lines of 80 characters each) is the basic format. *Split screen* divides the display into two vertical columns (23 lines of 39 characters each). *Stored formats* (10 lines of 78 characters) gives you a vital editing tool. And *text management modification* is one line of 50 characters for use with the text management keys.

The split-screen display lets you display two different texts side by side—a presentation you will find particularly useful in comparing two versions of the same text, or locating the appropriate place to merge two pieces of text.

All characters in the display appear as green against a dark background. They are bright and sharp and closely resemble printed characters, with equal thickness and brightness across the entire screen.

Character brightness can be adjusted to the level you prefer—and a non-glare, flicker-free screen adds further to viewing comfort.









**Figure 1:**  
 UTS 400 Text Editor Keyboard, divided functionally into color-coded groups. The *control* keys, grouped at the lower left of the keyboard, regulate function mode, cursor movement and text scrolling. The *communications* keys, grouped at the upper right of the keyboard, are used to transmit text management requests to the central computer. *Peripheral* operations are controlled by keys grouped at the top center. Two types of *composition* commands are

controlled by keys grouped at the lower right: static commands that are meaningless to the terminal, and display-sensitive commands that are interactive with the display, producing forced line terminations. The *character* keys, in normal typewriter configuration, are grouped in the center of the keyboard. The *editing* keys, located across the top of the keyboard, are used for manipulating text.





## Functions and Features . . .



You'll find that the SPERRY UNIVAC UTS 400 Text Editor gives you all the capabilities you need for efficiently editing large amounts of text with the least possible effort. As you've already seen, the functions of the Text Editor are controlled by color-coded key arrangements on the keyboard, with text easily accessible and prominently displayed on the large, bright video screen. The functions offered by the UTS 400 Text Editor, through its comprehensive keyboard, are discussed below.

### Text Manipulation

The capabilities of the UTS 400 Text Editor let you make continuous insertion, block insertion, deletion, transpositions and copying of text. In addition, unique strings of characters can be located for reference, replacement or deletion. You can also insert defined character strings at selected points in the text. With split-screen operation you can edit two pieces of text on the same screen—or merge text from one block to another.

### Style Control

Text style is controlled by a group of 12 keys which generate a two-character sequence consisting of a unique delimiting character followed by a different standard text character for each key. The keys are shift sensitive and give you a total of 24 style commands, which are interpreted and acted on by the central computer. Additional keys supplement the style control group to indicate required line terminations, fixed spaces, paragraph ends, text ends, flush right and left and centering.

### Scrolling

All text held in the refresh memory can be scrolled in either direction, controlled by two keys. Scrolling to the beginning or end of a text is automatic by use of the cursor controls. A unique feature gives you high-speed cursor movement at the depression of a key.

### Auxiliary Controls

Auxiliary read, write, and print operations are activated by three keys assigned these functions—and all standard auxiliary devices are supported. ~





### Text Editing

All the editing capabilities of the UTS 400 Text Editor are preconfigured in the UTS 400 Text Editor microprogrammed computer. Editing can be performed in either the full-screen, split-screen or format mode (the latter for manipulating unique character strings).

All UTS 400 text-editing operations with similar characteristics are covered by a uniform procedure—so simplicity, efficiency and high-capacity are the keynotes.

In the full-screen mode, you can delete, copy and move text. In the split-screen mode you can also merge text. And in the format mode, you can further replace character strings.

Mass insertions of text can be made by using either one of two methods. An *insert* mode function lets you insert text continuously, with automatic replacement of text to the right of the cursor. Text can also be *opened* at a selected point to allow insertions. A *close* function restores the contiguity of text when an insertion is complete.

The UTS 400 Text Editor uses four types of video emphasis: *reverse* for defining text blocks to be manipulated, plus *blink*, *underline* and *reduced intensity* to mark text for special handling or to mark variations in type style such as bold face, italic and small caps. Combinations of emphasis are also possible.

To minimize the keystrokes required for text editing, reverse video emphasis is a default selection of the word, sentence, paragraph or block definition functions in the lower function mode. Upper function use of the text definition keys lets you select the emphasis you desire.

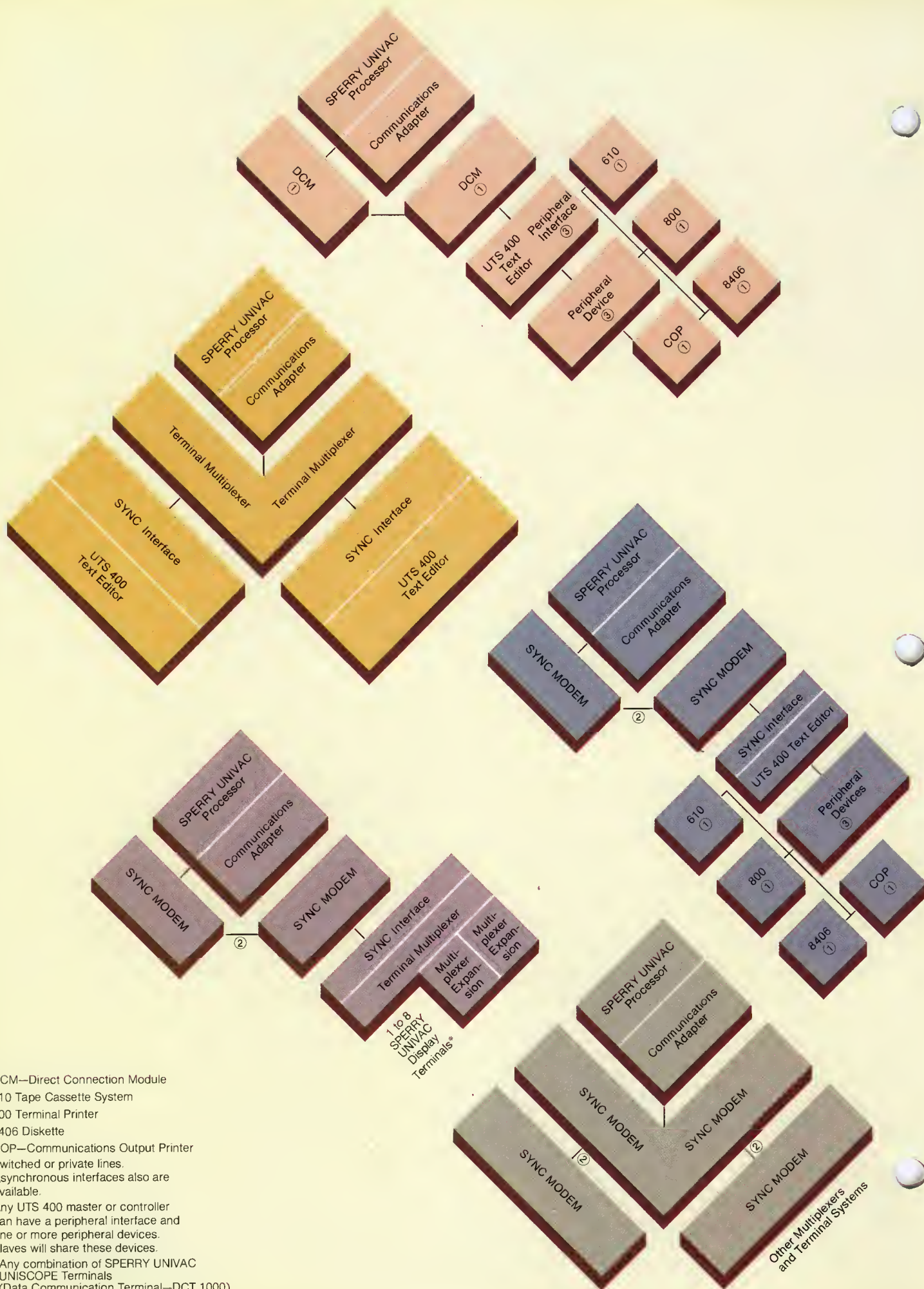
You are completely protected, during text editing, from inadvertent loss of text. Blocks of text to be deleted are always defined first by reverse video emphasis, which gives your operator the opportunity to review the block before deletion.

To further protect the integrity of text—and to simplify the editing procedure—style commands may be inserted in text without the manual creation of space. Text is automatically displaced to accommodate your commands. Normal text characters can, however, be altered simply by overstriking.

### Text Management

Text management is accomplished by your operator through keys which interface the central computer. Enough keys are provided so that multiple keystrokes are unnecessary. These keys can operate in various modes such as "directory," "text" and "command"—under control of the host system software. The technique is flexible, and lets you fill a wide variety of needs without modification of the basic, built-in UTS 400 Text Editor program.





① DCM—Direct Connection Module  
610 Tape Cassette System  
800 Terminal Printer  
8406 Diskette  
COP—Communications Output Printer

② Switched or private lines.  
Asynchronous interfaces also are available.

③ Any UTS 400 master or controller can have a peripheral interface and one or more peripheral devices. Slaves will share these devices.

\*Any combination of SPERRY UNIVAC UNISCOPE Terminals (Data Communication Terminal—DCT 1000) & (Universal Terminal System—UTS)



### **UTS 400 Text Editor Configurations . . .**

Basically, the UTS 400 Text Editor consists of a built-in microprocessor computer, text-editing firmware, random-access memory of 4K 12-bit-character capacity, a display generator and a keyboard, housed in a desk-sized cabinet.

To the basic UTS 400 Text Editor, you can add a communications interface, a peripherals interface for 7-bit devices, a peripherals interface for 8-bit devices, and expanded random-access memory that will increase storage capacity to more than 18,000 characters.

The UTS 400 Text Editor is a single-station unit, capable of operating independently. But by adding a terminal multiplexer, you can connect as many as 16 additional Text Editors to a single modem or suitable communications equipment.

Your network can become even larger by using UTS 400 Text Editors and multiplexers in various combinations and by multidropping at many interface points.

Your UTS 400 Text Editor can be considerably enhanced by the use of one or more of its associated Sperry Univac peripheral subsystems. These include the tape cassette system, the diskette subsystem, the terminal printer and the communications output printer.

These peripherals are discussed in more detail in the next section of this booklet. For an example of how they—and various combinations of UTS 400 Text Editors and multiplexers—would work in a network, consider the possibilities diagrammed in the configurator, Figure 2.



**Figure 2:**  
UTS 400 Text Editor Configurations.





## The UTS 400 Text Editor Peripherals . . .

Tape cassette, diskette and printer subsystems can greatly increase the power and effectiveness of your UTS 400 Text Editor.

The Series 600 magnetic tape cassette subsystem gives you off-line file accessibility and extensive off-line file-building capability. You can store up to 1,440,000 text characters on tape in this desk-top unit with a single loading of the dual cassette transports. Text can be read directly onto your UTS 400 Text Editor screen from the tape cassette—or you can store correct text on the tape and transmit it later to your central computer for typesetting.

The freestanding SPERRY UNIVAC diskette system gives you vast off-line file accessibility and extensive off-line file-building capability. With this desk-top device you can store 256,000 characters of text for rapid access either by your UTS 400 Text Editor or your central computer. Storage is on flexible disks about the size of 45-rpm phonograph records. This lets you store files sent from your central computer, or maintain working files at the actual editing site while you prepare them for later transmission to the central computer.

The Series 800 terminal printer uses a non-impact printing method to produce a single copy of the text displayed on your UTS 400 Text Editor screen. It operates at up to 300 characters per second. It produces the full upper and lower case alphanumeric character set in clear, easily readable print.

The freestanding SPERRY UNIVAC communications output printer uses an impact method to print text at rates up to 30 characters per second. It can print multiple copies, and it accepts various sizes of continuous, sprocketed forms. It too prints the full character set, but converts lower case to upper case and prints upper case only.



## The Intelligent Choice . . .



The SPERRY UNIVAC UTS 400 Text Editor was created in response to the needs of creative editors. It is specifically designed for text editing. It stands alone—without the need of burdening your central computer for text editing purposes; this also eliminates contention between terminals for processing time, when you use more than one. Yet the UTS 400 Text Editor can still communicate with your central processor for text management jobs.

With up to 20K of built-in memory, the UTS 400 Text Editor is sufficiently large to handle most mass editing requirements. It is also expandable—to grow with you and your workload. If you presently use a SPERRY UNIVAC automatic typesetting system the UTS 400 Text Editor will increase its versatility—and is completely compatible with your present central computer, and any UNISCOPE display terminals you may now be using.

Built-in intelligence, versatility, flexibility and ease of use make the SPERRY UNIVAC UTS 400 Text Editor the “intelligent” choice in any computer-based printing and publishing typesetting operation.







